

*AMENDMENTS TO THE ABSTRACT*

This invention ~~is intended to match~~matches the material quality of a product to target data, even when a materials quality model is insufficient in prediction accuracy. ~~The heating step of heating~~Heating a metallic material, ~~the processing step of~~rolling, forging, or leveling the metallic material, and ~~the cooling step of~~cooling the metallic material are each conducted at least once, ~~then, prior~~Prior to manufacture of a metallic product of a desired size and shape, qualitative data of the metallic material ~~is~~are measured at a position by ~~means of a~~ materials quality sensor ~~to installed~~installed in a manufacturing line, and modifications based on measured data are made to heating, processing, or cooling conditions in at least one of the ~~above steps, upstream with respect to~~of the materials quality measured data sensor so that the quality of the metallic material at the measuring position ~~may agree~~agrees with target data.